

Title (en)

Process and device for controlling a safety-relevant function of a machine

Title (de)

Verfahren und Vorrichtung zum Steuern einer sicherheitsrelevanten Funktion einer Maschine

Title (fr)

Procédé et dispositif de commande d'une fonction relative à la sécurité d'une machine

Publication

EP 1306603 B2 20110629 (DE)

Application

EP 02021518 A 20020926

Priority

DE 10152543 A 20011024

Abstract (en)

[origin: EP1306603A2] A monitoring region (18) including a safety boundary separated from danger region of machine (12), is monitored with a location resolving and time resolving cameras (14,16), to detect movement direction and speed of an operator (26). The position of safety boundary is established based on the detected result. A specific function of the machine is triggered on detecting entry of operator into the danger region. <??>An Independent claim is also included for machine function control apparatus.

IPC 8 full level

B25J 19/06 (2006.01); **F16P 3/14** (2006.01); **B21D 5/02** (2006.01); **B30B 15/00** (2006.01)

CPC (source: EP US)

F16P 3/142 (2013.01 - EP US); **F16P 3/144** (2013.01 - EP US)

Citation (opposition)

Opponent :

- DE 4405376 C1 19950216 - LEUZE ELECTRONIC GMBH & CO [DE]
- DE 19601661 C1 19970717 - LEUZE ELECTRONIC GMBH & CO [DE]
- DE 29920715 U1 20000224 - LEUZE LUMIFLEX GMBH & CO [DE]

Cited by

DE102017127184A1; DE102009034848A1; EP2730377A3; CN102905861A; CN108068140A; DE102009055990B4; EP2395274A1; IT201900021108A1; DE102009034848B4; EP3627033A1; US9030674B2; US9864913B2; WO2016097142A1; WO2012080130A1; WO2014202471A1; WO2008151739A1; US9475200B2; US9489730B2; DE102020103597A1; WO2021160637A1; EP1457730B1; EP2093725B1; EP1954498B1; EP2093725A1; EP3916286A1; DE102020114488B3; EP3524870B1; EP3524870B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1306603 A2 20030502; **EP 1306603 A3 20040331**; **EP 1306603 B1 20050302**; **EP 1306603 B2 20110629**; AT E290186 T1 20050315; DE 10152543 A1 20030508; DE 50202365 D1 20050407; JP 2003222295 A 20030808; US 2003076224 A1 20030424; US 6778092 B2 20040817

DOCDB simple family (application)

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